



96700-819 seq list.ST25 .
SEQUENCE LISTING

<110> Albert Einstein College of Medicine of Yeshiva University
Kalpana, Ganjam V.
<120> INHIBITION OF HIV-1 VIRION PRODUCTION BY A TRANSDOMINANT MUTANT
OF INTEGRASE INTERACTOR 1 (INI1)/hsNF5
<130> 96700/819
<140> 10/624,080
<141> 2003-07-21
<150> US 60/397,305
<151> 2002-07-19
<160> 18
<170> PatentIn version 3.2
<210> 1
<211> 385
<212> PRT
<213> Homo sapiens
<400> 1

Met Met Met Met Ala Leu Ser Lys Thr Phe Gly Gln Lys Pro Val Lys
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Phe Gln Leu Glu Asp Asp Gly Glu Phe Tyr Met Ile Gly Ser Glu Val
20 25 30

Gly Asn Tyr Leu Arg Met Phe Arg Gly Ser Leu Tyr Lys Arg Tyr Pro
35 40 45

Ser Leu Trp Arg Arg Leu Ala Thr Val Glu Glu Arg Lys Lys Ile Val
50 55 60

Ala Ser Ser His Gly Lys Lys Thr Lys Pro Asn Thr Lys Asp His Gly
65 70 75 80

Tyr Thr Thr Leu Ala Thr Ser Val Thr Leu Leu Lys Ala Ser Glu Val
85 90 95

Glu Glu Ile Leu Asp Gly Asn Asp Glu Lys Tyr Lys Ala Val Ser Ile
100 105 110

Ser Thr Glu Pro Pro Thr Tyr Leu Arg Glu Gln Lys Ala Lys Arg Asn
115 120 125

Ser Gln Trp Val Pro Thr Leu Ser Asn Ser Ser His His Leu Asp Ala
130 135 140

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Val Pro Cys Ser Thr Thr Ile Asn Arg Asn Arg Met Gly Arg Asp Lys
145 150 155 160

Lys Arg Thr Phe Pro Leu Cys Phe Asp Asp His Asp Pro Ala Val Ile
165 170 175

His Glu Asn Ala Ser Gln Pro Glu Val Leu Val Pro Ile Arg Leu Asp
180 185 190

Met Glu Ile Asp Gly Gln Lys Leu Arg Asp Ala Phe Thr Trp Asn Met
195 200 205

Asn Glu Lys Leu Met Thr Pro Glu Met Phe Ser Glu Ile Leu Cys Asp
210 215 220

Asp Leu Asp Leu Asn Pro Leu Thr Phe Val Pro Ala Ile Ala Ser Ala
225 230 235 240

Ile Arg Gln Gln Ile Glu Ser Tyr Pro Thr Asp Ser Ile Leu Glu Asp
245 250 255

Gln Ser Asp Gln Arg Val Ile Ile Lys Leu Asn Ile His Val Gly Asn
260 265 270

Ile Ser Leu Val Asp Gln Phe Glu Trp Asp Met Ser Glu Lys Glu Asn
275 280 285

Ser Pro Glu Lys Phe Ala Leu Lys Leu Cys Ser Glu Leu Gly Leu Gly
290 295 300

Gly Glu Phe Val Thr Thr Ile Ala Tyr Ser Ile Arg Gly Gln Leu Ser
305 310 315 320

Trp His Gln Lys Thr Tyr Ala Phe Ser Glu Asn Pro Leu Pro Thr Val
325 330 335

Glu Ile Ala Ile Arg Asn Thr Gly Asp Ala Asp Gln Trp Cys Pro Leu
340 345 350

Leu Glu Thr Leu Thr Asp Ala Glu Met Glu Lys Lys Ile Arg Asp Gln
355 360 365

Asp Arg Asn Thr Arg Arg Met Arg Arg Leu Ala Asn Thr Gly Pro Ala
370 375 380

Trp
385

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<210> 2
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 2

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Lys Leu Arg Asp Ala Phe Thr Trp Asn Met Asn Glu Lys Leu Met Thr
 20 25 30

Pro Glu Met Phe Ser Glu Ile Leu Cys Asp Asp Leu Asp Leu Asn Pro
 35 40 45

Leu Thr Phe Val Pro Ala Ile Ala Ser Ala Ile Arg Gln Gln Ile
 50 55 60

<210> 3
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 3

Pro Glu Val Leu Val Pro Ile Arg Leu Asp Met Glu Ile Asp Gly Gln
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Lys Leu Arg Asp Ala Phe Thr Trp Asn Met Asn Glu Lys Leu Met Thr
 20 25 30

Pro Glu Met Phe Ser Glu Ile Leu Cys Asp Asp Leu Asp Leu Asn Pro
 35 40 45

Leu Thr Phe Val Pro Ala Ile Ala Ser Ala Ile Arg Gln Gln Ile Glu
 50 55 60

Ser Tyr Pro Thr Asp Ser Ile Leu Glu Asp Gln Ser Asp Gln Arg Val
 65 70 75 80

Ile Ile Lys Leu Asn Ile His Val Gly Asn Ile Ser Leu Val Asp Gln
 85 90 95

Phe Glu Trp Asp Met Ser Glu Lys Glu Asn Ser Pro Glu Lys Phe Ala
 100 105 110

<210> 4
 <211> 245
 <212> PRT
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<400> 4

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 Phe Gln Leu Glu Asp Asp Gly Glu Phe Tyr Met Ile Gly Ser Glu Val
 20 25 30
 Gly Asn Tyr Leu Arg Met Phe Arg Gly Ser Leu Tyr Lys Arg Tyr Pro
 35 40 45
 Ser Leu Trp Arg Arg Leu Ala Thr Val Glu Glu Arg Lys Lys Ile Val
 50 55 60
 Ala Ser Ser His Gly Lys Lys Thr Lys Pro Asn Thr Lys Asp His Gly
 65 70 75 80
 Tyr Thr Thr Leu Ala Thr Ser Val Thr Leu Leu Lys Ala Ser Glu Val
 85 90 95
 Glu Glu Ile Leu Asp Gly Asn Asp Glu Lys Tyr Lys Ala Val Ser Ile
 100 105 110
 Ser Thr Glu Pro Pro Thr Tyr Leu Arg Glu Gln Lys Ala Lys Arg Asn
 115 120 125
 Ser Gln Trp Val Pro Thr Leu Ser Asn Ser Ser His His Leu Asp Ala
 130 135 140
 Val Pro Cys Ser Thr Thr Ile Asn Arg Asn Arg Met Gly Arg Asp Lys
 145 150 155 160
 Lys Arg Thr Phe Pro Leu Cys Phe Asp Asp His Asp Pro Ala Val Ile
 165 170 175
 His Glu Asn Ala Ser Gln Pro Glu Val Leu Val Pro Ile Arg Leu Asp
 180 185 190
 Met Glu Ile Asp Gly Gln Lys Leu Arg Asp Ala Phe Thr Trp Asn Met
 195 200 205
 Asn Glu Lys Leu Met Thr Pro Glu Met Phe Ser Glu Ile Leu Cys Asp
 210 215 220
 Asp Leu Asp Leu Asn Pro Leu Thr Phe Val Pro Ala Ile Ala Ser Ala
 225 230 235 240

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Ile Arg Gln Gln Ile
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<210> 5
<211> 245
<212> PRT
<213> Homo sapiens

<400> 5

His Leu Asp Ala Val Pro Cys Ser Thr Thr Ile Asn Arg Asn Arg Met
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Gly Arg Asp Lys Lys Arg Thr Phe Pro Leu Cys Phe Asp Asp His Asp
20 25 30

Pro Ala Val Ile His Glu Asn Ala Ser Gln Pro Glu Val Leu Val Pro
35 40 45

Ile Arg Leu Asp Met Glu Ile Asp Gly Gln Lys Leu Arg Asp Ala Phe
50 55 60

Thr Trp Asn Met Asn Glu Lys Leu Met Thr Pro Glu Met Phe Ser Glu
65 70 75 80

Ile Leu Cys Asp Asp Leu Asp Leu Asn Pro Leu Thr Phe Val Pro Ala
85 90 95

Ile Ala Ser Ala Ile Arg Gln Gln Ile Glu Ser Tyr Pro Thr Asp Ser
100 105 110

Ile Leu Glu Asp Gln Ser Asp Gln Arg Val Ile Ile Lys Leu Asn Ile
115 120 125

His Val Gly Asn Ile Ser Leu Val Asp Gln Phe Glu Trp Asp Met Ser
130 135 140

Glu Lys Glu Asn Ser Pro Glu Lys Phe Ala Leu Lys Leu Cys Ser Glu
145 150 155 160

Leu Gly Leu Gly Gly Glu Phe Val Thr Thr Ile Ala Tyr Ser Ile Arg
165 170 175

Gly Gln Leu Ser Trp His Gln Lys Thr Tyr Ala Phe Ser Glu Asn Pro
180 185 190

Leu Pro Thr Val Glu Ile Ala Ile Arg Asn Thr Gly Asp Ala Asp Gln
195 200 205

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Trp Cys Pro Leu Leu Glu Thr Leu Thr Asp Ala Glu Met Glu Lys Lys
210 215 220

Ile Arg Asp Gln Asp Arg Asn Thr Arg Arg Met Arg Arg Leu Ala Asn
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Thr Gly Pro Ala Trp
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<210> 6
<211> 1857
<212> DNA
<213> Homo sapiens

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atgttccgag gttctctgta caagagatac ccctcactct ggaggcgact agccactgtg 240
gaagagagga agaaaatagt tgcacgtca catggtaaaa aaacaaaacc taacactaag 300
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ctcagaagat tgggccgcct ctctccatc ttctggcaag gacagaggcg aggggacagc 1320
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gtacacattc catttggtga gccccagtc tgccccccac cccaccctcc ctaccctcc 1440
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 ccccaggcag ggctagtaac agtttttaaa taaaaggcaa caggatcatgt tcaatttctt 1560
 aaatctagt tctttatttc ttctgttaca atagtgttgc ttgtgtaagc aggttagagt 1620
 gcacagtgtc cccaattggt cctggcactg caaaaccaa ttaaacaatc ccacaaagaa 1680
 ttctgacatc aatgtgtttt cctcagtcag gtctatttca agattctaga agttcctttt 1740
 gtaaaacttg cctttaaaac tcttcctcct aatgccatca gatctcttaa cattggctca 1800
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<220>
 <223> primer

<400> 8
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<210> 9
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 9

Pro Glu Val Leu Val Pro Ile Arg Leu Asp Met Glu Ile Asp Gly Gln
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Lys Leu Arg Asp Ala Phe Thr Trp Asn Met Asn Glu Lys Leu Met Thr
 20 25 30

Pro Glu Met Phe Ser Glu Ile Leu Cys Gly Asp Leu Asp Leu Asn Pro
 35 40 45

Leu Thr Phe Val Pro Ala Ile Ala Ser Ala Ile Arg Gln Gln Ile Glu
 50 55 60

96700-819 seq list.ST25

Ser Tyr Pro Thr Asp Ser Ile Leu Glu Asp Gln Ser Asp Gln Arg Val
65 70 75 80

Ile Ile Lys Leu Asn Ile His Val Gly Asn Ile Ser Leu Val Asp Gln
85 90 95

Phe Glu Trp Asp Met Ser Glu Lys Glu Asn Ser Pro Glu Lys Phe Ala
100 105 110

<210> 10
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<213> Homo sapiens

<400> 10

Pro Glu Val Leu Val Pro Ile Arg Leu Asp Met Glu Ile Asp Gly Gln
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Lys Leu Arg Asp Ala Phe Thr Trp Asn Met Asn Glu Lys Leu Met Ala
20 25 30

Pro Glu Met Phe Ser Glu Ile Leu Cys Asp Asp Leu Asp Leu Asn Pro
35 40 45

Leu Thr Phe Val Pro Ala Ile Ala Ser Ala Ile Arg Gln Gln Ile Glu
50 55 60

Ser Tyr Pro Thr Asp Ser Ile Leu Glu Asp Gln Ser Asp Gln Arg Val
65 70 75 80

Ile Ile Lys Leu Asn Ile His Val Gly Asn Ile Ser Leu Val Asp Gln
85 90 95

Phe Glu Trp Asp Met Ser Glu Lys Glu Asn Ser Pro Glu Lys Phe Ala
100 105 110

<210> 11
<211> 112
<212> PRT
<213> Homo sapiens

<400> 11

Pro Glu Val Leu Val Pro Ile Arg Leu Asp Met Glu Ile Asp Gly Gln
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Lys Leu Arg Asp Ala Phe Thr Trp Asn Met Asn Glu Lys Leu Met Thr
20 25 30

96700-819 seq list.ST25

Pro Glu Met Phe Ser Glu Ile Leu Cys Asp Asp Leu Asp Leu Asn Pro
35 40 45

Leu Thr Phe Val Pro Ala Ile Ala Ser Ala Ile Arg Gln Gln Ile Glu
50 55 60

Pro Tyr Pro Thr Asp Ser Ile Leu Glu Asp Gln Ser Asp Gln Arg Val
65 70 75 80

Ile Ile Lys Leu Asn Ile His Val Gly Asn Ile Ser Leu Val Asp Gln
85 90 95

Phe Glu Trp Asp Met Ser Glu Lys Glu Asn Ser Pro Glu Lys Phe Ala
100 105 110

<210> 12
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<212> PRT
<213> Homo sapiens

<400> 12

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Lys Leu Arg Asp Ala Phe Thr Trp Asn Met Asn Glu Lys Leu Met Thr
20 25 30

Pro Glu Met Phe Ser Glu Ile Leu Cys Asp Asp Leu Gly Leu Asn Pro
35 40 45

Leu Thr Phe Val Pro Ala Ile Ala Ser Ala Ile Arg Gln Gln Ile Glu
50 55 60

Ser Tyr Pro Thr Asp Ser Ile Leu Glu Asp Gln Ser Asp Gln Arg Val
65 70 75 80

Ile Ile Lys Leu Asn Ile His Val Gly Asn Ile Ser Leu Val Asp Gln
85 90 95

Phe Glu Trp Asp Met Ser Glu Lys Glu Asn Ser Pro Glu Lys Phe Ala
100 105 110

<210> 13
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<220>
<223> primer

96700-819 seq list.ST25

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<210> 15
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gcgaattcct acccatggtg 20